Environmental Protection Agency

Pt. 98, Subpt. F, Table F-2

- (3) Smelter-specific slope coefficients and the last date when the smelter-specific-slope coefficients were measured.
- (d) Method used to measure the frequency and duration of anode effects (or to measure anode effect overvoltage and current efficiency).
- (e) The following CO_2 -specific information for prebake cells:
 - (1) Annual anode consumption.
- (2) Annual CO_2 emissions from the smelter.
- (f) The following CO_2 -specific information for Søderberg cells:
 - (1) Annual paste consumption.

- (2) Annual CO_2 emissions from the smelter.
- (g) Smelter-specific inputs to the CO_2 process equations (e.g., levels of sulfur and ash) that were used in the calculation, on an annual basis.
- (h) Exact data elements required will vary depending on smelter technology (e.g., point-feed prebake or Søderberg) and process control technology (e.g., Pechiney or other).

§ 98.68 Definitions.

All terms used in this subpart have the same meaning given in the Clean Air Act and subpart A of this part.

Table F–1 to Subpart F of Part 98—Slope and Overvoltage Coefficients for the Calculation of PFC Emissions From Aluminum Production

Technology	CF ₄ slope coefficient [(kg CF ₄ /metric ton Al)/ (AE–Mins/cell-day)]	CF ₄ overvoltage coefficient [(kg CF ₄ /metric ton Al)/(mV)]	Weight fraction C ₂ F ₆ /CF ₄ [(kg C ₂ F ₆ /kg CF ₄)]
Center Worked Prebake (CWPB)	0.143	1.16	0.121
Side Worked Prebake (SWPB)	0.272	3.65	0.252
Vertical Stud Søderberg (VSS)	0.092	NA	0.053
Horizontal Stud Søderberg (HSS)	0.099	NA	0.085

[75 FR 79156, Dec. 17, 2010]

Table F–2 to Subpart F of Part 98—Default Data Sources for Parameters Used for CO_2 Emissions

Parameter	Data source
CO ₂ Emissions from Prebake Cells (CWPB and SWP	В)
MP: metal production (metric tons Al)	Individual facility records.
NAC: net annual prebaked anode consumption per metric ton AI (metric tons C/metric tons AI).	Individual facility records.
Sa: sulfur content in baked anode (percent weight)	2.0.
Ash _a : ash content in baked anode (percent weight)	0.4.
CO ₂ Emissions From Pitch Volatiles Combustion (CWPB and	SWPB)
MP: metal production (metric tons AI)	Individual facility records.
PC: annual paste consumption (metric ton/metric ton Al)	Individual facility records.
CSM: annual emissions of cyclohexane soluble matter (kg/metric ton Al)	HSS: 4.0.
	VSS: 0.5.
BC: binder content of paste (percent weight)	Dry Paste: 24.
	Wet Paste: 27.
S _p : sulfur content of pitch (percent weight)	0.6.
Ash _p : ash content of pitch (percent weight)	0.2.
H _p : hydrogen content of pitch (percent weight)	3.3.
Sc: sulfur content in calcined coke (percent weight)	1.9.
Ash _c : ash content in calcined coke (percent weight)	0.2.
CD: carbon in skimmed dust from Søderberg cells (metric ton C/metric ton Al)	0.01.
CO ₂ Emissions from Pitch Volatiles Combustion (VSS and	HSS)
GA: initial weight of green anodes (metric tons)	Individual facility records.
H _w : annual hydrogen content in green anodes (metric tons)	0.005 × GA.
BA: annual baked anode production (metric tons)	Individual facility records.
WT: annual waste tar collected (metric tons)	(a) 0.005 × GA.
(a) Riedhammer furnaces	(b) insignificant.
(b) all other furnaces.	, , , ,
(a) to the first term (b) to the first term	